COMPUTING SYSTEM FOR IMPLEMENTING A SHARED CACHE

Abstract of the Disclosure

In a multi-threaded computing environment, a shared cache system reduces the amount of redundant information stored in memory. A cache memory area provides

5   both global readable data and private writable data to processing threads. A particular processing thread accesses data by first checking its private views of modified data and then its global views of read-only data. Uncached data is read into a cache buffer for global access. If write access is required by the processing thread, the data is copied into a new cache buffer, which is assigned to the processing thread's private view. The

10   particular shared cache system supports generational views of data. The system is particularly useful in on-line analytical processing of multi-dimensional databases.+